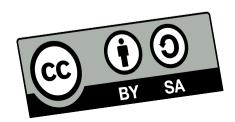
Reproducible research: a very brief overview on Intellectual Property

Fundamentals of reproducible research and free software

Miguel Colom http://mcolom.info







Intellectual property



- Applicable to intangible creations of human interest
- **Protect** the **author**
- For example: a scientific discovery, a song, a painting, a logotype, a computer program, ...
- Diverse definitions
- For legal aspects, refer to the exact regulation

View of the article 27 of the Declaration of Human Rights

- Authors have the **right** of the **protection** of their creations
- For example: they should be able to **distribute** and sell their works
- Contrary to ordinary goods: intellectual property expires after a time



indicable rights of all members of the human family is the foundation larger freedom. of freedom, justice and peace in the world,

sussessed disregard and contempt for human rights have resulted in rburous acts which have outraged the conscience of mankind, and the advent of a world in which human beings shall enjoy freedom of speech and belief and freedom from fear and want has been proclaimed as the highest aspiration of the common people, All texes it is essential, if man is not to be compelled to have recourse,

resecues this Universal Declaration of Human Rights as a common standard of achievement for all peoples and all nations, to the end that as a last resort, to rebellion against tyranny and oppression, that human rights should be protected by the rule of law every individual and every aroun of society keeping this Declaration success it is essential to promote the development of friendly relations

constantly in mind, shall strive by teaching and education to promote respect for these rights and freedoms and by progressive measures

surgers for mess rights and freemans and or progressive memory, autional and international, to secure their universal and effective their faith in fundamental human rights, in the dignity and worth of recognition and observance, both among the results of Venher States the human person and in the equal rights of men and romen and have themselves and among the peoples of territories under their jurisdiction

****** -**. Everyone has the right to seek and to enjay in other countries explore from persecution.
This right may not be involved in the cose of properties, gen-

2. No one shall be addressly deprived of his nationality nor denied the right to change his nationality.

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we will be in essectation with others.
2. No are shall be orbitrarily deprived at his property.

a. ma not been to conserve approved at the papperty. ^{10,10,10,10} — Everyme has the right to breaken of thought, considerer and trajence this right includes faceballs religion or heldel, and facebone, other alone or is community with others not in public or private, to manifest the seligion or heldel in interling preview, working and observance.

-Transfer on all the cash to an effective competent netional tribunols for acts violating the fundam ights granted him by the constitution at by law.

attract - -Ne are shall be subjected annut to - Everyone is entitled in full equality to a fair an

control = -All human beings are been free and equal in dignity and rights. They are endowed with season and conscience and should get towards are another in a saint of bacharband.

status a -t. Everyone is entitled to all the rights and free

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artest 1 m All one pound hadness the law open orinination to equal protection of the law. All ore an ool protection against any disorinination in violation o

utility - -- Everyone has the right to recognition everywhere a

stream in -1, Everyone has the right to freedom of movement 2. Everyone has the right to leave any country, including his own,

**** ==1. Everyone has the right to work, to free chaics of

within a model of the second secon



ation insuring for himself and his family on existence worthy a human dignity, and supplemented, if recessory, by other means a social protection.

determined to promote social progress and better standards of life i

SHIBERS Member States have pledged themselves to achieve, in co

for and observance of human rights and fundamental freedoms,

the greatest importance for the full realization of this pledge,

operation with the United Nations, the promotion of universal respect

success a common understanding of these rights and freedoms is of

4. Everyone has the right to form and to join trade unions for the protection of his interests.

second of the second se We sight to change bits relationship, 1000000 = -1. Here and warms in full tops, without any limits-line due to rear, mainsealing arreligion, have the sight to many and to found a family. Here are untiled to equiliphic as to manipu-dation manipus and at its disabilities. 3. Manipus shall be animum lots only with the free and full essent of the instealing process.

in the electrony spaces. I. The family is the natural and fundamental group unit of society and is estiMed to protection by society and the State.

EVENT IF -- Everyone has the right to foundam all opinion and repression; this right includes freedom to hold opinions without interference and to seek, receive and impact information and ideas through ony media and regretizes of foundam.

union of the state of the second state of the second No one may be compelled to belong to an association.

AND ALL PROPERTY AND AND THE ADDR POST IN THE POST INTERPOST IN THE POST INTERPOST INTERPO exilite advancement and its bandwa. Everyone has the right to the protection of the n

tection against unemployment. 2. Everyone, without any discrimination, has the right to equal pay for eased work.

sense in -1. Everyone has the right to education. Education half be free, or level in the elementary and fundamental stages Demonstry education shall be computery. Technical and parkes inent education shall be mode gammality available and logds detection shall be equipit excessible to all and the basis of most. 6. Detection while be developed in the full development of the human personality and in the screenplacening of respect free human right and fundamental freedoms. It shall permote understanding, state more and fundably among all notions, recall or religious groups and shall human the activities of the United Nations for the main-tenance of peace.

Perents have a prior right to choose the kind of education that shall be given to their children.

II =1 =1. Everyone has the right feasily to perticipate in the all life of the community. In only the acts and to share in life advancement and its baselits.

2. Everyone has the right of equal excess to public service in his

These rights and feedams may in no case be exercised a o the purposes and principles of the United Nations.

country. 3. The will of the people shall be the beais of the outhority of gov-enment; this will shall be expressed in periodic and genuine elecuncent at -Everyone, on a member of society, has the right also security and is entitled to realization, through notion

Article 27 of the Declaration of Human Rights

- Everyone has the right freely to participate in the cultural life of the community, to enjoy the arts and to share in scientific advancement and its benefits.
- Everyone has the right to the protection of the moral and material interests resulting from any scientific, literary or artistic production of which he is the author.

Access the text here: <u>https://www.un.org/en/about-us/universal-declaration-of-hum</u> <u>an-rights</u>

Some organizations

- WIPO (Worldwide International Property Organisation)
 - Specialized agencies of the **United Nations** (UN). From 1967.
 - International registration of marks, trademarks, patents



- **TRIPS agreement** (Trade-Related Aspects of Intellectual Property Rights)
 - International legal agreements
 - All the member nations of the World Trade Organization (WTO)
 - Copyright, patent grants



Trade Related Intellectual Property Rights

More organizations

- European Patent Organisation (EPO)
- European Union Intellectual Property Office (EUIPO)
- American Intellectual Property Law Association (AIPLA)
- European Patent Institute (EPI)
- Japan Intellectual Property Association (JIPA)
- ...
- Pirate Party



Some local regulations



- France: *Droits d'auteurs* law. Section I of the French Intellectual Property Code.
 - Music performers and producers, **copyright** of **70 years**
 - **Orphan works** of unknown authors might be digitized and made available for **public use**
- **Spain**: Ley de Propiedad Intelectual (LPI). Real Decreto Legislativo 1/1996, de 12 de abril.
- Brazil: Instituto Nacional da Propriedade Industrial (INPE). Law: PI 9.279/96.
- (...)

Copyright



- A type of **intellectual property**
- The authors are granted with **exclusive rights** for a **limited time**
 - Copy, distribute, exhibit, produce their creations
- When the **copyright expires**, the creation goes into the **public domain**
- Depends on the jurisdiction. Different countries have different regulations
 - International organizations and agreements (TRIPS, for example)

Copyright

• Fair use exceptions

- Non commercial, educational or scientific, the size of the work used (be careful about plagiarism!), the context, the major societal benefit, and others.
- Piracy: copyright violation
- Copyleft: a type of copyright focused on ensuring the freedoms are maintained when redistributing. Used by the FSF to refer to their strong licenses. Other example: Creative Commons licenses.



Software licenses

- A legal-binding text
- Type of licenses
 - **Permissive**: the receivers are **not required** to **maintain** the **same freedoms** as they had before distributing. For example, they might choose not to distribute the modifications in their source code. Examples: BSD
 - Strong licenses: the freedoms are maintained after distribution. Examples: GPL



Patents

- Grant exclusive rights to the holder
 - The holder issues a contract to give exploitation rights to others
- Aim: encourage innovation and investment
- **Prone to abuse**: patents on basic techniques can actually discourage innovation

 \rightarrow At this moment, **no patents for software** (EU, USA).



Patents. Use case: ViBe algorithm

- **ViBe**: A universal background subtraction algorithm for video sequences. By Olivier Barnich and Marc Van Droogenbroeck.
- URL: <u>http://www.telecom.ulg.ac.be/publi/publications/barnich/Barnich2011ViB</u> e/index.html

Patents. Use case: ViBe algorithm

Licence:

ViBe is covered by a patent (see <u>http://www.ulg.ac.be/telecom/research/vibe</u>).

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Patents. Use case: ViBe algorithm

- → Let's have a look at the patent
- \rightarrow How it was **possible** to **patent** a **method**?

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